# 2nd Workshop on Child, Computer and Interaction

**Cambridge, MA, USA – MIT Media Lab**

**5 November 2009**

## Technical Program

**Thursday, 5 November 2009**

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<th>Time</th>
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<th>Presenter(s)</th>
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<td>09:00 – 09:15</td>
<td><strong>Welcome Message</strong> – <em>Shrikanth Narayanan</em></td>
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<td>09:15 – 10:15</td>
<td><strong>Invited Talk</strong> Chair: <em>Shrikanth Narayanan</em></td>
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<td>09:15 – 10:15</td>
<td><strong>Conversations with a Virtual Science Tutor in Multimedia Learning Environments</strong></td>
<td><em>Wayne Ward and Ronald Cole</em></td>
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<td>10:15 – 13:00</td>
<td><strong>Oral Presentations</strong> Chair: <em>Elmar Nöth</em></td>
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<td>10:15 – 10:35</td>
<td><strong>Fantasy, Curiosity and Challenge as Adaptation Indicators in Multimodal Dialog Systems for Preschoolers</strong></td>
<td><em>Theofanis Kannetis, Alexandros Potamianos, Georgios N. Yannakakis</em></td>
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<td>10:55 – 11:20</td>
<td><strong>Coffee Break</strong></td>
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<td>11:20 – 11:40</td>
<td><strong>Interacting with Stories</strong></td>
<td><em>Ashley Robinson, Chao Peng, Francis Quek, Yong Cao</em></td>
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<td>11:40 – 12:00</td>
<td><strong>Whole Body Interaction for Child-Centered Multimodal Language Learning</strong></td>
<td><em>Alberto Gonzalez, John Borland, Kathleen Geraghty</em></td>
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<td>12:00 – 12:20</td>
<td><strong>Automatic Childhood Autism Detection by Vocalization Decomposition with Phone-like Units</strong></td>
<td><em>Dongxin Xu, Jeffrey Richards, Jill Gilkerson, Umit Yapanel, Sharmistha Gray, John Hansen</em></td>
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<td>12:20 – 12:40</td>
<td><strong>Towards a Language-independent Intelligibility Assessment of Children with Cleft Lip and Palate</strong></td>
<td><em>Tobias Bocklet, Andreas Maier, Korbinian Riedhammer, Elmar Nöth</em></td>
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<td>12:40 – 13:00</td>
<td><strong>A Review of ASR Technologies for Children's Speech</strong></td>
<td><em>Matteo Gerosa, Diego Giuliani, Shrikanth Narayanan, Alexandros Potamianos</em></td>
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<td>13:00 – 14:30</td>
<td><strong>Lunch</strong></td>
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14:30 – 16:00  **Poster Presentations**
(All presenters are expected to be present during both poster sessions)

14:30 – 15:15  **Poster Session I**
   Chair: Diego Giuliani

   - Assessing the Stress/Neutral Speech Environment in Adult/Child Interactions for Applications in Child Language Development (PP1)
     Sanjay Patil, John Hansen, Jill Gilkerson, Sharmistha Gray, Dongxin Xu
   - Automatic Classification of Reading Disorders in a Single Word Reading Test (PP2)
     Andreas Maier, Stefanie Horndasch, Elmar Nöth
   - Robustness Optimization of a Speech Interface for Child-Directed Embedded Language Tutoring (PP3)
     Oliver Jokisch, Horst-Udo Hain, Rico Petrick, Rüdiger Hoffmann
   - Avoiding Speaker Variability in Pronunciation Verification of Children's Disordered Speech (PP4)
     Oscar Saz, Eduardo Lleida, W.-Ricardo Rodriguez
   - Comparing Child and Adult Language: Exploring Semantic Constraints (PP5)
     Ismail El Maarouf, Farida Said, Jeanne Villaneau, Dominique Duhaut
   - Pilot Experiments on Children's Voice Recording (PP6)
     Sawit Kasuriya and Alistair D. N. Edwards
   - Recognizing Child's Emotional State in Problem-Solving Child-Machine Interactions (PP7)
     Serdar Yıldırım, Shrikanth Narayanan

15:15 – 16:00  **Poster Session II**
   Chair: Kay Berkling

   - Learning Meaningful Units from Multimodal Input and the Effect of Interaction Strategies (PP8)
     Louis ten Bosch, Lou Boves, Okko Räsänen
   - Child Selection of Learning Methods: A Corpus Based on Real-World Data (PP9)
     Heikki Ruuska, Shinya Kinyama, Yoichi Takebayashi
   - Preliminary Study of Stress/Neutral Detection on Recordings of Children in the Natural Home Environment (PP10)
     Umit Yapanel, Dongxin Xu, John Hansen, Sharmistha Gray, Jill Gilkerson, Jeffrey Richards
   - From Competitive to Social Two-player Videogames (PP11)
     Jesús Ibáñez Martínez, Carlos Delgado-Mata
   - Incorporating Music into the Study of Algorithms and Computer Programming (PP12)
     Takeo Tatsumi, Yoshiaki Nakano, Kiyoshi Tajitsu, Haruhiko Okumura, Yasunari Harada
   - An Automatic Screening Test for Preschool Children: Theory and Data Collection (PP13)
     Tobias Bocklet, Cordula Winterholler, Andreas Maier, Maria Schuster, Elmar Nöth
   - Upper Limb Rehabilitation and Evaluation of Children Using a Humanoid Robot (PP14)
     Douglas Brooks, Ayanna Howard

16:00 – 16:15  **Coffee Break**

16:15 – 18:30  **Brain Storming Session**
   Chair: Alexandros Potamianos